

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000070

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. <sup>7</sup>: G01S 17/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 DWPI (range, distance, position, block, shutter, shield, gate, switch, sample, modulation, phase, reference, receiver, detector, sensor, periodic, cyclic, target, object)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6507706 B1 (BRAZAS et al.) 14 January 2003 Column 7, line 32- column 8, line 19	1-25
X	WO 2000/005597 A2 (MCEWAN) 3 February 2000 Page 4, line 24 - page 7, line 4	1-25
A	EP 91665 B1 (TOKYO KOGAKU KIKAI KABUSHIKI KAISHA) 12 July 1989 The whole document	
A	US 3992615 A (BENNETT et al.) 16 November 1976 The whole document	

☐ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
11 June 2004

Date of mailing of the international search report 21 JUN 2004

Name and mailing address of the ISA/AU  
 AUSTRALIAN PATENT OFFICE  
 PO BOX 200, WODEN ACT 2606, AUSTRALIA  
 E-mail address: pct@ipaustalia.gov.au  
 Facsimile No. (02) 6285 3929

Authorized officer  
 J. LAW  
 Telephone No : (02) 6283 2179

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/NZ2004/000070**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	6507706	EP	1279971	JP	2003114379	US	2003021599
WO	0005597	AU	13079/00	US	6137438		
EP	0091665	JP	58174874	US	4560271		
US	3992615	CA	1084148	CA	1084149	CA	1084150
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							